



1600

MAY 15 2003

RECEIVED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/744,176A

DATE: 05/13/2003

TIME: 16:14:37

Input Set : A:\105032991190.ST25.txt

Output Set: N:\CRF4\05132003\I744176A.raw

TECH CENTER 1600/2900

3 <110> APPLICANT: Connex-Gesellschaft zur Optimerung von Forschung und  
 4 Entwicklung mbH  
 5 INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE  
 6 (I.N.S.E.R.M)  
 8 <120> TITLE OF INVENTION: Anti Hepatitis C virus antibody and uses therof  
 10 <130> FILE REFERENCE: b3030pct  
 12 <140> CURRENT APPLICATION NUMBER: 09/744,176A  
 13 <141> CURRENT FILING DATE: 2001-07-20  
 15 <150> PRIOR APPLICATION NUMBER: ep 98 11 35 95.7  
 16 <151> PRIOR FILING DATE: 1998-07-21  
 18 <160> NUMBER OF SEQ ID NOS: 22  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 324  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: CDS  
 30 <222> LOCATION: (1)..(324)  
 32 <400> SEQUENCE: 1  
 33 tct tac gag ctg acg cag ccg ccc tgg gtg tca gtg tcc cca gga cag 48  
 34 Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 35 1 5 10 15  
 37 acg gcc agg atc acc tgc tct gga gat gca ttg cca aag caa tat gct 96  
 38 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala  
 39 20 25 30  
 41 tac tgg tat cag cag aag cca ggc cag gcc cct gtg ttg gtg ata tat 144  
 42 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 43 35 40 45  
 45 aaa gat aat gag agg ccc tca ggg atc cct gag cga ttc tct ggc tcc 192  
 46 Lys Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 47 50 55 60  
 49 agg tca ggg aca aca gtc acg ttg acc atc agt gga gtc cag gca gaa 240  
 50 Arg Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu  
 51 65 70 75 80  
 53 gac gag gct gac tat tac tgt caa tca gca gac agc agt ggt tct tcc 288  
 54 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser Gly Ser Ser  
 55 85 90 95  
 57 tgg gtg ttc ggc gga ggg acc aag ctg acc gtc cta 324  
 58 Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 59 100 105  
 62 <210> SEQ ID NO: 2  
 63 <211> LENGTH: 108

ENTERED

## RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/744,176A

TIME: 16:14:37

Input Set : A:\105032991190.ST25.txt

Output Set: N:\CRF4\05132003\I744176A.raw

```

64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 2
69 Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
70 1 5 10 15
73 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala
74 20 25 30
77 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
78 35 40 45
81 Lys Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
82 50 55 60
85 Arg Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu
86 65 70 75 80
89 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser Gly Ser Ser
90 85 90 95
93 Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
94 100 105
97 <210> SEQ ID NO: 3
98 <211> LENGTH: 351
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
103 <220> FEATURE:
104 <221> NAME/KEY: CDS
105 <222> LOCATION: (1)..(351)
107 <400> SEQUENCE: 3
108 cag gtg cag cta cag cag tgg ggc gca gga ctg ttg aag cct tcg gag 48
109 Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
110 1 5 10 15
112 acc ctg tcc ctc acc tgc gct gtc tat ggt ggg tcc tta agt ggt tac 96
113 Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
114 20 25 30
116 ttc tgg acc tgg atc cgc cag tcc ccc ggg aag ggg ctg gag tgg att 144
117 Phe Trp Thr Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile
118 35 40 45
120 ggg gaa agc aat tat agt gga agt acc agg tac aac ccg tcc ctc aag 192
121 Gly Glu Ser Asn Tyr Ser Gly Ser Thr Arg Tyr Asn Pro Ser Leu Lys
122 50 55 60
124 agt cga gtc acc ata tca gta gac acg tcc cag aac cag ttc tcc ctg 240
125 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln Asn Gln Phe Ser Leu
126 65 70 75 80
128 aag ctg agc tct gtg acc gcc gcg gac acg gct gta tat tac tgt gcg 288
129 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
130 85 90 95
132 aga ggt tgg gcg gtg gac ggt atg gac gtc tgg ggc caa ggg acc acg 336
133 Arg Gly Trp Ala Val Asp Gly Met Asp Val Trp Gly Gln Gly Thr Thr
134 100 105 110
136 gtc acc gtc tcc tca 351
137 Val Thr Val Ser Ser
138 115

```

## RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/744,176A

TIME: 16:14:37

Input Set : A:\105032991190.ST25.txt

Output Set: N:\CRF4\05132003\I744176A.raw

```

141 <210> SEQ ID NO: 4
142 <211> LENGTH: 117
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 4
148 Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
149 1 5 10 15
152 Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Leu Ser Gly Tyr
153 20 25 30
156 Phe Trp Thr Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile
157 35 40 45
160 Gly Glu Ser Asn Tyr Ser Gly Ser Thr Arg Tyr Asn Pro Ser Leu Lys
161 50 55 60
164 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln Asn Gln Phe Ser Leu
165 65 70 75 80
168 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
169 85 90 95
172 Arg Gly Trp Ala Val Asp Gly Met Asp Val Trp Gly Gln Gly Thr Thr
173 100 105 110
176 Val Thr Val Ser Ser
177 115
180 <210> SEQ ID NO: 5
181 <211> LENGTH: 324
182 <212> TYPE: DNA
183 <213> ORGANISM: Homo sapiens
186 <220> FEATURE:
187 <221> NAME/KEY: CDS
188 <222> LOCATION: (1)..(324)
190 <400> SEQUENCE: 5
191 tcc tct gag ctg aca cag cca ccc tcg gtg tca gtg tcc cca gga cag 48
192 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
193 1 5 10 15
195 acg gcc agg atc acc tgc tct gga gat gca ttg cca aag caa tat gct 96
196 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala
197 20 25 30
199 tac tgg tat cag cag aag cca ggc cag gcc cct gtg ttg gtg ata tat 144
200 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
201 35 40 45
203 aaa gat aat gag agg ccc tca ggg atc cct gag cga ttc tct ggc tcc 192
204 Lys Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
205 50 55 60
207 agg tca ggg aca aca gtc acg ttg acc atc agt gga gtc cag gca gaa 240
208 Arg Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu
209 65 70 75 80
211 gac gag gct gac tat tac tgt caa tca gca gac agc agt ggt tct tcc 288
212 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser Gly Ser Ser
213 85 90 95
215 tgg gtg ttc ggc gga ggg acc aag ctg acc gtc cta 324
216 Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

```

## RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/744,176A

TIME: 16:14:37

Input Set : A:\105032991190.ST25.txt

Output Set: N:\CRF4\05132003\I744176A.raw

```

217          100          105
220 <210> SEQ ID NO: 6
221 <211> LENGTH: 108
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 6
227 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
228 1          5          10          15
231 Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala
232          20          25          30
235 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
236          35          40          45
239 Lys Asp Asn Glu Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
240          50          55          60
243 Arg Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly Val Gln Ala Glu
244 65          70          75          80
247 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp Ser Ser Gly Ser Ser
248          85          90          95
251 Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
252          100          105
255 <210> SEQ ID NO: 7
256 <211> LENGTH: 34
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Poly C Sense Primer-5' AncTail
263 <400> SEQUENCE: 7
264 cgtcgatgag ctctagaatt cccccccccc cccc
267 <210> SEQ ID NO: 8
268 <211> LENGTH: 22
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: 5'-VH Primer Set: VH1, 3, 5, 7
275 <400> SEQUENCE: 8
276 aggtgcagct gctcgagtct gg
279 <210> SEQ ID NO: 9
280 <211> LENGTH: 23
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: 5'-VH Primer Set: VH2
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (4)..(4)
291 <223> OTHER INFORMATION: "n" is "a" or "g"
293 <400> SEQUENCE: 9
294 cagntcacct tgctcgagtc tgg
297 <210> SEQ ID NO: 10

```

294 cagntcacct tgctcgagtc tgg 23

## RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/744,176A

TIME: 16:14:37

Input Set : A:\105032991190.ST25.txt

Output Set: N:\CRF4\05132003\I744176A.raw

```

298 <211> LENGTH: 23
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: 5'-VH Primer Set: VH4
305 <400> SEQUENCE: 10
306 caggtgcagc tgctcgagtc ggg 23
309 <210> SEQ ID NO: 11
310 <211> LENGTH: 23
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: 5'-VH Primer Set: VH4B
317 <400> SEQUENCE: 11
318 caggtgcagc tactcgagtg ggg 23
321 <210> SEQ ID NO: 12
322 <211> LENGTH: 23
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: 5'-VH Primer Set: VH6
329 <400> SEQUENCE: 12
330 caggtacagc tgctcgagtc agg 23
333 <210> SEQ ID NO: 13
334 <211> LENGTH: 29
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: 3'-VH Primer: CGd1
341 <400> SEQUENCE: 13
342 gcatgtacta gttttgtcac aagatttgg 29
345 <210> SEQ ID NO: 14
346 <211> LENGTH: 24
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: 5'-VL Primer Set: VL1
353 <400> SEQUENCE: 14
354 aattttgagc tcactcagcc ccac 24
357 <210> SEQ ID NO: 15
358 <211> LENGTH: 27
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: 5'-VL Primer Set: VL2
365 <400> SEQUENCE: 15
366 tctgccgagc tccagcctgc ctccgtg 27
369 <210> SEQ ID NO: 16
370 <211> LENGTH: 27

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/744,176A

DATE: 05/13/2003  
TIME: 16:14:38

Input Set : A:\105032991190.ST25.txt  
Output Set: N:\CRF4\05132003\I744176A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 4

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/744,176A

DATE: 05/13/2003

TIME: 16:14:38

Input Set : A:\105032991190.ST25.txt

Output Set: N:\CRF4\05132003\I744176A.raw

L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0